



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 1 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED

Contact Name		Buyer	Chantal Lavoie
Vendor Phone	905 669 9444	Customer POID	
		Customer Tax #	10127-2607
Ship To Contact		Terms	Net 30
Ship To Phone		Currency	CAD
Ship Via:	VENDOR'S TRUCK	FOB	FCA - (Free Carrier)
Ship Acct:			

MIS 530

Line Nbr	Reference Vendor Part Number Line Comments Delivery Comments	Description/ Mfg ID	Req Date/ Taxable Promise Date	CD	Req Qty/ Unit of Measure	PO Unit Price	Extended Price
1	M303R2.000	303 ROUND BAR 2"	6/20/2014 Yes 6/20/2014		12.00 f	\$24.34	\$292.10
MATERIAL: AISI 303 SS ROUND BAR AS PER <u>ASTM A582</u> NOTE: AISI 304/316 NOT ACCEPTABLE							

Line Total: \$292.10

2	M304S18GA	304/316 .050 Sheet	6/20/2014 Yes 6/20/2014		280.00 sf	\$4.02	\$1,126.27
MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR <u>ASTM A240</u> OR ASME SA240							

Line Total: \$1,126.27

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



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1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 2 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

3	M304S20GA	304/316 .040 Sheet	6/20/2014	96.00	✓	\$2.75	\$264.00
			Yes	sf			
			6/20/2014				

MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH
AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316)
OR ASTM A240 OR ASME SA240

Line Total: \$264.00

4	M5052H32S.040	5052-H32 .040 Sheet	6/20/2014	80.00	✓	\$1.01	\$80.55
			Yes	sf			
			6/20/2014				

MATERIAL: 5052-H32 ALUMINUM SHEET AS PER
QQ-A-250/8 OR AMS-QQ-A-250/8 OR AMS 4016 OR ASTM B209

Line Total: \$80.55

5	M6061T6R3.250	6061-T6 RD BAR 3.250"	6/20/2014	6.00	✓	\$21.70	\$130.20
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160
OR ASTM B211 OR ASTM B221

P 004/5/18

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



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Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 3 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444
Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Total: **\$130.20**

6	M6061T6R0.625	6061-T6 Round Bar .625"	6/20/2014 Yes 6/20/2014	36.00 f	✓	\$0.82	\$29.52
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MATERIAL:6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160
OR ASTM B211 OR ASTM B221

Line Total: **\$29.52**

7	M6061T6R1.000	ROUND BAR 1.00"	6/20/2014 Yes 6/20/2014	24.00 f	✓	\$1.85	\$44.40
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MATERIAL:6061-T6 (OR T651/ T6510/ T6511/ T62) ALUMINUM ROUND BAR
QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160
OR ASTM B211 OR ASTM B221

Line Total: **\$44.40**

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



Dart Aerospace Ltd.
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Hawkesbury, ON K6A 1K7
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PURCHASE ORDER

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Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 4 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name

Vendor Phone 905 669 9444

Ship To Contact

Ship To Phone

Ship Via: VENDOR'S TRUCK

Ship Acct:

Buyer

Chantal Lavoie

Customer POID

Customer Tax # 10127-2607

Terms

Net 30

Currency

CAD

FOB

FCA - (Free Carrier)

8	M6061T6B0.375X01.250	6061-T6 Bar .375 x 1.25	6/20/2014	20.00	✓	\$1.56	\$31.12
		Yes		f			
		6/20/2014					

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$31.12

9	M6061T6B0.750X08.000	6061-T6 BAR .750" X 8.00"	6/20/2014	12.00	✓	\$19.13	\$229.50
		Yes		f			
		6/20/2014					

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$229.50

10	M6061T6B1.000X06.000	6061T6 BAR 1.00 X 6.00	6/20/2014	12.00	✓	\$15.05	\$180.60
		Yes		f			
		6/20/2014					

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

11/11/18

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



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1270 Aberdeen Street
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PURCHASE ORDER

Purchase Order ID **PO24565**

Purchase Order Date 6/11/2014

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Page Number 5 of 7

Order From :
VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA – (Free Carrier)

Line Total: **\$180.60**

11	M6061T6B2.000X03.500	6061-T6 Bar 2.00 x 3.50	6/20/2014	12.00		\$17.68	\$212.10
			Yes	f			
			6/20/2014				
MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							

Line Total: **\$212.10**

12	M6061T6B1.500X02.500	6061-T6 Bar 1.50 x 2.50	6/20/2014	12.00		\$9.28	\$111.30
			Yes	f			
			6/20/2014				
MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221							

Line Total: **\$111.30**

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



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Purchase Order Date 6/11/2014

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Page Number 6 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

13	M6061T6B2.500X03.500	6061-T6 Bar 2.50 x 3.50	6/20/2014	12.00		\$21.53	\$258.30
			Yes	f			
			6/20/2014				

MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR
AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116
OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR
ASTM B221

Line Total: \$258.30

14	M7075T6B6.000X0.250	7075-T6 BAR 6.000" X 0.250"	6/20/2014	24.00		\$12.67	\$304.00
			Yes	f			
			6/20/2014				

MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 ALUMINUM BAR PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-A-200/11 OR
CUT FROM PLATE QQ-A-250/12

Line Total: \$304.00

15	M2024T3S.080	2024-T3 .080 sheet	6/20/2014	96.00		\$5.00	\$479.60
			Yes	sf			
			6/20/2014				

MATERIAL: 2024-T3 ALUMINUM SHEET
AS PER QQ-A-250/4 OR AMS-QQ-A-250/4 OR AMS 4037
OR ASTM B209

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note:

6/11/2014



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Purchase Order Date 6/11/2014

PO Print Date 6/11/2014

Page Number 7 of 7

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: VENDOR'S TRUCK
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB FCA - (Free Carrier)

Line Total: \$479.60

16	M6061T6S.040	6061-T6 .040 Sheet	6/20/2014	288.00	\$2.06	\$593.10
			Yes	sf		
			6/20/2014			

MATERIAL: 6061-T6/T62 ALUMINUM SHEET AS PER
QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR ASTM B209

Line Total: \$593.10

17	71401-45	PROCUREMENT QUALITY CLAUSES	6/20/2014	1.00	\$0.00	\$0.00
			No			
			6/20/2014			

Procurement Quality Clauses
A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system

Line Total: \$0.00

PO Total: \$4,366.65

PO Instructions: ORDER # pec ST-690905
ORDER # pec ST-691703

Note: Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Change Nbr: 1

Change Date: 6/11/2014

B I L L O F L A D I N G

No: PEC 882451

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:09 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Ship To: (1)
DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7
Tel: 613-632-9577 Fax: 613-632-1053

B I L L O F L A D I N G

1) Our Order PEC-691931- 1 Your PO # 24565

STAINLESS STEEL ROUND BAR 303 STAINLESS

2.00" DIA X 144.0000"

DAS
23
9-89Heat Number
L2A2Tag No
302676Quantity
12 FTPCS
1

MTR

Wt LBS
127

2) Our Order PEC-691931- 2 Your PO # 24565

STAINLESS STEEL SHEET 304-2B

.0480 Nom X 48.0000" X 120.0000"

DAS
23
9-89Heat Number
350222
350222Tag No
302847
302848
Total:Quantity
160.00 SFT
120.00 SFT
280.00 SFTPCS
4
3
7

MTR

Wt LBS
321
231
552

3) Our Order PEC-691931- 3 Your PO # 24565

STAINLESS STEEL SHEET 304-2B

.0360 Nom X 48.0000" X 96.0000"

Heat Number
350174Tag No
302849Quantity
96.00 SFTPCS
3

MTR

Wt LBS
136

4) Our Order PEC-691931- 4 Your PO # 24565

ALUMINUM SHEET 5052-H32

.0400 Nom X 48.0000" X 120.0000"

Heat Number
B-10041101Tag No
302851Quantity
80.00 SFTPCS
2

MTR

Wt LBS
45

5) Our Order PEC-691931- 5 Your PO # 24565

ALUMINUM ROUND BAR 6061-T6511

3.250" DIA X 72.0000"

MTR

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 882451

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:09 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
201320360	302725	23 9-89	6 FT	1	59

6) Our Order PEC-691931- 6 Your PO # 24565
ALUMINUM ROUND BAR 6061-T6511

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
625" DIA X 144.0000"		23 9-89	36 FT	3	13
168036-9	302677				

7) Our Order PEC-691931- 7 Your PO # 24565
ALUMINUM ROUND BAR 6061-T6511

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
1.00" DIA X 144.0000"		23 9-89	24 FT	2	22
201408019	302678				

8) Our Order PEC-691931- 8 Your PO # 24565
ALUMINUM FLAT BAR 6061-T6511

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
375" x 1.250" X 240.0000"		23 9-89	20 FT	1	11
201325113	302679				

9) Our Order PEC-691931- 9 Your PO # 24565
ALUMINUM FLT BAR ECONOPLT 6061-T6511

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
.750" X 8.00" X 144.0000"		23 9-89	12 FT	1	85
41102-044	302680				

10) Our Order PEC-691931- 10 Your PO # 24565
ALUMINUM FLAT BAR 6061-T6511

Heat Number	Tag No	DAS	Quantity	PCS	Wt LBS
1.00" x 6.00" X 144.0000"		23 9-89	12 FT	1	85
201410816	302681				

Page: 2Continued

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RAPPORTÉES IMMÉDIATEMENT.

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RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 882451

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:09 From PFW
 Probill
 Via VIM TRANSFER
 FOB CONCORD
 Frt PREPAID
 Route 0- 0 Manifest
 Vhcle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

B I L L O F L A D I N G

11) Our Order PEC-691931- 11 Your PO # 24565

ALUMINUM FLAT BAR 6061-T6511

2.00" x 3.50" X 144.0000"

Heat Number

Z00642016

Tag No

302682

DAS
 23
 9-89

Quantity

12 FT

PCS

1

MTR

Wt LBS

99

12) Our Order PEC-691931- 12 Your PO # 24565

ALUMINUM FLAT BAR 6061-T6511

1.50" x 2.50" X 144.0000"

Heat Number

Z00635023

Tag No

302684

DAS
 23
 9-89

Quantity

12 FT

PCS

1

MTR

Wt LBS

53

13) Our Order PEC-691931- 13 Your PO # 24565

ALUMINUM FLAT BAR 6061-T6511

2.50" x 3.50" X 144.0000"

Heat Number

HK297-022

Tag No

302685

DAS
 23
 9-89

Quantity

12 FT

PCS

1

MTR

Wt LBS

124

TOTAL:

Tags
 14

PCS
 25

LBS
 1411

Heat Number

*** Chemical Analysis ***

168036-9
 201320360
 201325113
 201408019
 201410816
 350174
 350222
 41102-044
 B-10041101
 HK297-022
 L2A2
 Z00635023

Page: 3Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

B I L L O F L A D I N G

No: PEC 882451

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 13Jun14 at 15:09 From PFW
Probill
Via VIM TRANSFER
FOB CONCORD
Frt PREPAID
Route 0- 0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

B I L L O F L A D I N G

Z00642016

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

TOTAL 1 PKG, 1 SKID, 2 BDLS GW. 1565 LBS

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

**** TEL. 800-926-2600 ****

* WE STOCK STAINLESS STEEL *

* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
ADDED TO EVERY ORDER.***

Page: 4 Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT.
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

Purchase Order Receipt Listing

Page 1 of 2

Wednesday, June 18, 2014 8:54:40 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO24565 Receipt Dates from 6/18/2014 to 6/18/2014 All Line Item Types

All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID/Vendor Name VC-COP001 Thyssenkrupp Materials CA Ltd											
PO24565	1		M303R2.000	f	6/20/2014	6/18/2014	12.0000	\$22.45	0.0000	0	\$269.40
CAD	No		303 ROUND BAR 2" f		12.0000	DESJ02		\$269.40	0.0000	0	
			m129530								
	2		M304S18GA	sf	6/20/2014	6/18/2014	280.0000	\$3.71	0.0000	0	\$1,038.75
	No		304/316 .050 Sheet	sf	280.0000	DESJ02		\$1,038.75	0.0000	0	
			m129530								
	3		M304S20GA	sf	6/20/2014	6/18/2014	96.0000	\$2.54	0.0000	0	\$243.49
	No		304/316 .040 Sheet	sf	96.0000	DESJ02		\$243.49	0.0000	0	
			m129530								
	4		M5052H32S.040	sf	6/20/2014	6/18/2014	80.0000	\$0.93	0.0000	0	\$74.29
	No		5052-H32 .040 Sheet	sf	80.0000	DESJ02		\$74.29	0.0000	0	
			m129530								
	5		M6061T6R3.250	f	6/20/2014	6/18/2014	6.0000	\$20.01	0.0000	0	\$120.08
	No		6061-T6 RD BAR 3.250"	f	6.0000	DESJ02		\$120.08	0.0000	0	
			m129530								
	6		M6061T6R0.625	f	6/20/2014	6/18/2014	36.0000	\$0.76	0.0000	0	\$27.23
	No		6061-T6 Round Bar .625"	f	36.0000	DESJ02		\$27.23	0.0000	0	
			m129530								
	7		M6061T6R1.000	f	6/20/2014	6/18/2014	24.0000	\$1.71	0.0000	0	\$40.95
	No		ROUND BAR 1.00"	f	24.0000	DESJ02		\$40.95	0.0000	0	
			m129530								
	8		M6061T6B0.375X01.250	f	6/20/2014	6/18/2014	20.0000	\$1.44	0.0000	0	\$28.70
	No		6061-T6 Bar .375 x 1.25	f	20.0000	DESJ02		\$28.70	0.0000	0	
			m129530								

Receiving Report

Date: 14/6/18
 Supplier: 77405

Batch No: 1128530
 Dart P/O: 24065

Packing Slip: Yes ☒ No ☐
 Invoice: Yes ☐ No ☒
 Receipt: Cash ☐ Cr ☒
 New Supplier Yes ☐ No ☒

Release Note Attached: Yes ☒ No ☐ N/A ☐
 Waybill Attached: Yes ☐ No ☒
 Shipment Complete: Yes ☒ No ☐ N/A ☐
 QC18 Inspection ☒ 23 N/A ☐
 Work Order 9-89 140618 N/A ☐

Discrepancies

Part Number	Description	Quantity Ordered	Quantity Rec'd	Quantity Short	Quantity Inspected	Quantity Rejected	Comment / NCR Number
3	BAEh010001	1	1				

Initials of Receiver QC12 [Signature]

Production/Admin: 14/6/18
 Date [Signature]
 Received/Costing [Signature]
 Initial [Signature]

Location _____

Q U O T A T I O N

No: PEC ST-691703

Quoted By:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS Qtd 11Jun14 Qte Ref
 Frt PREPAID Via FOB
 Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL
 Slp STAN IVERS (905-532-1350)

Q U O T A T I O N

QT No: PEC ST-691703

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

1 ALUMINUM SHEET 6061 T6	6 PCS	162 LBS
.0400 Nom X 48.0000" X 144.0000"		
Part No 5-7 DAYS A.R.O		
MATERIAL	6 PCS @	98.8500 EA 593.10
ENERGY & CAP SURCHG		25.0000 LOT 25.00
SKID		25.0000 LOT 25.00

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
 ** REFERENCED ON IT **

Price in effect at time of shipment.
 Price based on receipt of total order.
 All weights are theoretical.
 All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM ***

 * WE STOCK STAINLESS STEEL!!!! *
 * PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

 ***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE
 ADDED TO EVERY ORDER.***

*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE
 *VISIT OUR WEBSITE: www.copperandbrass.com

Order Totals: 1 Items 162 LBS

*****	Material	Processing	Freight	Other	Taxes	ORDER AMT
	593.10			50.00	83.60	726.70

*****	Taxes: ONHSTS	83.60	0.00	0.00	0.00
-------	---------------	-------	------	------	------

Q U O T A T I O N

No: PEC ST-690905

Quoted By:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)

DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Quoted Ship To: (1)

DART AEROSPACE
1270 ABERDEEN ST
HAWKESBURY, ON K6A 1K7

Trm NET 30 DAYS/NET 30 JOURS

Qtd 09Jun14 Qte Ref

Frt PREPAID

Via

FOB

Tel 613-632-9577 Fax 613-632-1053 Ctc CHANTAL

Slp STAN IVERS (905-532-1350)

Q U O T A T I O N

QT No: PEC ST-690905

Test Certs: Chem-Y Phys-Y 1 Original copies with Shipment, 1 with Invoice

1 STAINLESS STEEL ROUND BAR 303 STAINLESS 2.00" DIA X 144.0000" MATERIAL ENERGY & CAP SURCHG	1 PCS 127 LBS @ 2.3000 LBS 25.0000 LOT	127 LBS 292.10 25.00
2 STAINLESS STEEL SHEET 304-2B .1200 Nom X 48.0000" X 120.0000" MATERIAL	3 PCS 3 PCS @ 396.9000 EA	601 LBS 1,190.70
3 STAINLESS STEEL SHEET 304-2B .0480 Nom X 48.0000" X 120.0000" MATERIAL	7 PCS 7 PCS @ 160.8943 EA	561 LBS 1,126.26
4 STAINLESS STEEL SHEET 304-2B .0360 Nom X 48.0000" X 96.0000" MATERIAL	3 PCS 3 PCS @ 88.0000 EA	144 LBS 264.00
5 ALUMINUM SHEET 5052-H32 .0400 Nom X 48.0000" X 120.0000" MATERIAL	2 PCS 2 PCS @ 40.2750 EA	45 LBS 80.55
6 ALUMINUM ROUND BAR 6061-T6511 3.250" DIA X 72.0000" <<<----- SPECIFICATIONS ----->>> Ga Tol + 0.0000 - 0.0000 Pc/Tag 1 WthTol + 0.0000 - 0.0000 Wt/Skd LthTol + 0.1250 - 0.0000 Ty Pk MATERIAL	1 PCS 6 FT @ 21.7000 FT	62 LBS 6 FT 130.20
7 ALUMINUM ROUND BAR 6061-T6511 .625" DIA X 144.0000" MATERIAL	3 PCS 36 FT @ .8200 FT	14 LBS 36 FT 29.52

6061 T6 S.040

Q U O T A T I O N

No: PEC ST-690905

Quoted By:

THYSSENKRUPP MATERIALS NA

2821 LANGSTAFF ROAD

CONCORD, ONTARIO L4K 5C6

Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)

DART AEROSPACE

Quoted Ship To: (1)

DART AEROSPACE

Q U O T A T I O N				QT No: PEC ST-690905
8 ALUMINUM ROUND BAR 6061-T6511	2 PCS	22 LBS		
1.00" DIA X 144.0000"		24 FT		
MATERIAL	24 FT @	1.8500 FT		44.40
9 ALUMINUM FLAT BAR 6061-T6511	1 PCS	11 LBS		
.375" x 1.250" X 240.0000"		20 FT		
MATERIAL	20 FT @	1.5560 FT		31.12
10 ALUMINUM FLT BAR ECONOPLT 6061-T6511	1 PCS	85 LBS		
.750" X 8.00" X 144.0000"		12 FT		
MATERIAL	12 FT @	19.1250 FT		229.50
11 ALUMINUM FLAT BAR 6061-T6511	1 PCS	86 LBS		
1.00" x 6.00" X 144.0000"		12 FT		
MATERIAL	12 FT @	15.0500 FT		180.60
12 ALUMINUM FLAT BAR 6061-T6511	1 PCS	88 LBS		
1.250" x 5.00" X 144.0000"		12 FT		
Part No OFFERING				
MATERIAL	12 FT @	15.4000 FT		184.80
13 ALUMINUM FLAT BAR 6061-T6511	1 PCS	101 LBS		
2.00" x 3.50" X 144.0000"		12 FT		
MATERIAL	12 FT /@	17.6750 FT		212.10
14 ALUMINUM FLAT BAR 6061-T6511	1 PCS	53 LBS		
1.50" x 2.50" X 144.0000"		12 FT		
MATERIAL	12 FT @	9.2750 FT		111.30
15 ALUMINUM FLAT BAR 6061-T6511	1 PCS	123 LBS		
2.50" x 3.50" X 144.0000"		12 FT		
MATERIAL	12 FT @	21.5250 FT		258.30
16 ALUMINUM PLATE 7075-T651	2 PCS	44 LBS		
.250" THICK X 6.0000" X 144.0000"				
<<<----- SPECIFICATIONS ----->>>				
Ga Tol + 0.0000 - 0.0000 Pc/Tag	2			
WthTol + 0.1250 - 0.0000 Wt/Skd				
LthTol + 0.0000 - 0.0000 Ty	Pk			
MATERIAL	2 PCS @	152.5000 EA		305.00
17 ALUMINUM SHEET 2024 -T3	4 PCS	173 LBS		
.0640 Nom X 48.0000" X 144.0000"				
MATERIAL	4 PCS @	192.3000 EA		769.20

Q U O T A T I O N

No: PEC ST-690905

Quoted By:

THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

Quoted To: (20115)
DART AEROSPACE

Quoted Ship To: (1)
DART AEROSPACE

Q U O T A T I O N

QT No: PEC ST-690905

18 ALUMINUM SHEET 2024 -T3 .0800 Nom X 48.0000" X 144.0000"
MATERIAL 2 PCS @ 239.8000 EA 108 LBS 479.60

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Price in effect at time of shipment.
Price based on receipt of total order.
All weights are theoretical.
All orders are subject to credit approval.

**** TEL. 800-926-2600 ****

*** CUSTOMER PICK-UP HOURS ***

*** 9:00 AM TO 4:00 PM ***

* WE STOCK STAINLESS STEEL!!!! *
* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT *

***PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE

ADDED TO EVERY ORDER.***

*FOR OUR FULL SALES TERMS AND CONDITIONS, PLEASE

*VISIT OUR WEBSITE: www.copperandbrass.com

Order Totals: 18 Items 2448 LBS

Material	Processing	Freight	Other	Taxes	ORDER AMT
5,919.25			25.00	772.76	6,717.01

Taxes: ONHSTS	772.76	0.00	0.00	0.00
---------------	--------	------	------	------

DART AEROSPACE

STAINLESS STEEL ROUND BAR 303 STAINLESS
2.00" DIA X 144.0000"
PART NO.

PO/Rel 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results

BL PEC-882451-001

13Jun14

Pg 1/1



METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS
6870 HIGHWAY 42 EAST
GHENT, KY 41045

6870 HIGHWAY 42 EAST

Certificate: 942236 1 Mail To:
Customer: 007206 001 THYSSENKRUPP MATERIALS
2821 LANGSTAFF ROAD
CONCORD, ON L4K5C6

Ship To:
 THYSSENKRUPP MATERIALS
 2821 LANGSTAFF ROAD
 CONCORD, ON L4K5C6

Date: 4/24/2014 Page: 1

Steel 303

Finish: (ST

Corrosion:

Your Order: PEC257709

NAS Order: IN 0189330 01

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
ASTM A582 12 EN 10204 3.1, ASTM A484/11
 AMS 5640U TYPE 1, QQS-764B CONDITION A
 SOLUTION ANNEAL TEMP 1900F MIN

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7008 EU DIRECTIVE
2011/65/EU.ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid #	Diameter	Size	Weight	-----Length-----	Mark	Pieces	Commodity Code
BG0529 8		2.0000		1,146	144.00	1	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/08

HEAT	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
L2A2	US	.0473	.1730	17.1255	.3495	1.8385	.3335	.0441	8.4500	.0310
		S %	SI %							
		.3425	.3830							

MECHANICAL PROPERTIES

Product Id	l d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BG0529 8	R L	153.00	44.00	84.00	57.00	49.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical
Dept. Mgr.

1. **Introduction**
 2. **Background**
 3. **Methodology**
 4. **Results**
 5. **Conclusion**
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THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
 .0360 Nom X 48.0000" X 96.0000"
 PART NO.

PO/Ref 24565

We certify that this is a true copy of the report
 furnished by the producer of the metal, or data
 resulting from tests made in approved labs.

Certificate of Mill Test Results

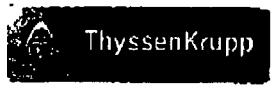
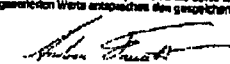
BL PEC-882451-003

13Jun14

Pg 1/1

Signed by:

18 dal

 ThyssenKrupp Stainless USA		INSPECTION CERTIFICATE CERTIFICADO DE INSPECCION ABNAHMEPROFZEUGNIS according to / de acuerdo con / nach EN 10204-3.1		Document number / Nº de certificado / Bescheinigungs-Nr. 0000024315 / Page / Pagina / Seite: 1 / 1																					
1 ThyssenKrupp Drive; P.O. Box 13000; Calvert, AL 36513-1300 OLBERT METALS SALES LIMITED 989 DERRY ROAD EAST SUITE 305 MISSISSAUGA ON L5T 2J8 CANADA			Customer/Ship to / Cliente / Besteller/Empfänger OLBERT METALS SALES LIMITED, MISSISSAUGA Customer's order number / Nº de Pedido Cliente / Kundenbestell.- TO-1822 Manufacturer's works order no. / Nº de Pedido Manufacturera / Werksauftrag.- 901145085 / 001 Delivery note no. / Nº de Entrega / Lieferanzettel Nr. 85216370 / 010 Product / Producto / Erzeugnis CDL BOBINA/BAND Steel grade and quality / Acero / Stahlsorte und Gütegruppe TYPE 304																						
Terms of delivery / Condiciones de entrega / Lieferbedingungen ASTM A240/A240M, ASME SA-240 Sec. II Part A Ed.2010 ASTM A480/A480M, ASME SA-480 Sec. II Part A Ed.2010																									
Customer's material no. / Nº de material del cliente / Kundenmaterial-Nr. 14-06-18		Product dimensions (Thickness / Width / Length) / Dimensiones (Espesor / Ancho / Largo) / Maße des Erzeugnisses (Dicke / Breite / Länge) 0.89 mm x 1,219.20 mm 0.0351 inch x 48.0000 inch		Steelmaking procedure / Proceso de manufactur./ Herstell. AOD Finish / Acabado / Ausführung Ilc / 2B																					
Packing No. / Nº de Empaque / Paket-Nr. 6040148	No. of pieces / Piezas / Stückzahl 1	Actual weight / Peso actual / Ist-Gewicht 19,423 lb / 8,810 kg	Coil No. / Bobina No. / Band-Nr. 709480	Heat No. / Colada / Schmelztemp. 350174	Sample No. / Nº de muestra / Proben-Nr. 1000053801																				
Same / Same / Same 1		19,423 lb / 8,810 kg																							
Heat / Colada / Schmelz 350174	Country of heat / País de colada / Erhitzungsland DEU	Chemical composition / Composición Química / Chemische Zusammensetzung <table border="1"> <thead> <tr> <th>% C</th> <th>% Si</th> <th>% Mn</th> <th>% P</th> <th>% S</th> <th>% Cr</th> <th>% Mo</th> <th>% Ni</th> <th>% N</th> <th>% Cu</th> </tr> </thead> <tbody> <tr> <td>0.037</td> <td>0.38</td> <td>1.24</td> <td>0.027</td> <td>0.0020</td> <td>18.05</td> <td>0.32</td> <td>8.02</td> <td>0.084</td> <td>0.26</td> </tr> </tbody> </table>				% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu	0.037	0.38	1.24	0.027	0.0020	18.05	0.32	8.02	0.084	0.26
% C	% Si	% Mn	% P	% S	% Cr	% Mo	% Ni	% N	% Cu																
0.037	0.38	1.24	0.027	0.0020	18.05	0.32	8.02	0.084	0.26																
Sample Position / Localiz. de la muestra / Probenlage TRANSVERSE																									
Inspection lot / Lote de inspección / Proben 1000053801 1000053802	Y80.2% PSI / MPa 41,189 / 284 39,884 / 276	TS PSI / MPa 95,301 / 664 95,721 / 660	B. A2° % 67.8 67.3	HRB 83 83																					
Dimensions-surface / Dimensiones-Superficie / Maße-Oberfläche: Test of identity (spectrum analysis) / Control de identidad (análisis espectrográfico) / Verenscheidungsprüfung (Spektralanalyse): No weld repairs Free of radioactive contamination Country of Heat is per ISO 3166-1 No intentional additions of Mercury compounds were made or used EU RoHS Directive 2002/95/EC Compliant																									
Originator of the document / Originador del documento / Aussteller der Bescheinigung ThyssenKrupp Stainless USA, LLC An ISO 9001:2008 certified company		The information provided is a true copy of data on file / Los valores mostrados corresponden a los datos archivados / Die gemessenen Werte entsprechen den gespeicherten Daten  Andrew Faucett Phone: +1 251 829 3482		Date of issue and validation / Fecha de emisión y validación / Datum Ausstellung / Bestätigung 09/12/2012																					
Certificate is generated automatically / Certificado es generado automáticamente / Das Zeugnis wurde elektronisch erstellt		Name of expert / Nombre del experto / Name des Sachverständigen																							

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
3.250" DIA X 72.0000"
PART NO.

PO/Rel 24565

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results

BL PEC-882451-005

1/30/14
Pg 1/1



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 1,404 lbs 12 pcs

MANIFEST NUMBER

206578

CUSTOMER PO

PEC-253062

CUSTOMER PART NUMBER

RD0024

DIE NUMBER

RD0024

ALLOY / TEMPER

6061-T6511

DESCRIPTION

Lightning Rod Tite 3.250 +/- .008

DATE OF SHIPMENT

10/31/2013

SALESPERSON

David Schroeder

OUR ORDER NUMBER

189167

ITEM

8

CERTIFICATION

ASTM-B221-13 Stencil Cont

SPECIFICATION

AMS-QQA-200/8 - 1997

DAS
23
9-89
14-06-18

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
2	201320360	10/6/13	51.20	52.30	47.90	49.10	14.20	14.45

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
092732	6061	0.76	0.36	0.33	0.09	0.85	0.09	0.06	0.02	97.44	0.05	0.15	United States of America
092733	6061	0.75	0.37	0.32	0.10	0.88	0.09	0.08	0.02	97.39	0.05	0.15	United States of America

Calvin J. Wiggins

Print Date: 10/31/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 8/24/11 - JMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
1.00" DIA X 144.0000"
PART NO.

PO/Rel 24568

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____

Certificate of Mill Test Results

BL PEC-882451-007

Pg 1/1



Service Center Metals

5850 Quality Way

Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 2,269 lbs 205 pcs

MANIFEST NUMBER

226233

CUSTOMER PO

PEC-258507

CUSTOMER PART NUMBER

RD0005

DIE NUMBER

RD0005

ALLOY/TEMPER

6061-T6511

DESCRIPTION

Lightning Rod Tite 1.000 +.004/- .003

DATE OF SHIPMENT

5/29/2014

SALESPERSON

David Schroeder

OUR ORDER NUMBER

205632

ITEM

13 DAS

CERTIFICATION

ASTM-B221-13 StencilCont

SPECIFICATION

AMS-QQA-200/8 - 1997

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
26	201408019	4/22/14	48.50	56.00	43.50	53.00	14.30	18.00

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others Each	Total	Melt Source:
01121404	6061	0.74	0.36	0.31	0.10	0.86	0.09	0.09	0.02	97.43	0.03	0.10	United States of America
02111404	6061	0.76	0.35	0.32	0.10	0.90	0.08	0.07	0.02	97.40	0.03	0.10	United States of America
120735	6061	0.74	0.37	0.34	0.10	0.86	0.09	0.09	0.02	97.39	0.03	0.10	United States of America

Print Date: 5/29/2014

Calvin J. Wiggins, Director of Quality & Technical Services

Rev 9/23/11 - IJMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLT BAR E CONOPLT 6061-T6511
750" X 8.00" X 144.0000"
PART NO.

PO/Ref 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-882451-009

13Jun14

Pg 1/1

Signed by:

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-257894-1		CUSTOMER PART NUMBER: W66/STK		PRODUCT DESCRIPTION: 750 X 8.000 PRECISION WIDE BAR	
KAISER ORDER NUMBER: 665609	LINE ITEM: 001	SHIP DATE: 05/02/2014	KAISER LOT NUMBER: 41102-044	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 12.000 PCS	B/L NUMBER: 608913	DIAM/DAF/THKNS: 	WIDTH: 	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
41102-044	0C01	1	50.3	47.1	15.0	RE 95	N/A	N/A
41102-044	0C01	2	47.9	43.2	13.0	RE 95	N/A	N/A
41102-044	0C01	3	49.4	46.3	15.0	RE 95	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H44762	.79	.43	.29	.09	.95	.10	.07	.02	.01	.00	.00	.01	.03

DAS
23
9-89

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT 11 AMS-QQ-A-200/8 97 (REAF 2012) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00134024

Kaiser Order Number: 665609

Line Item: 001

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

2.00" x 3.50" X 144.0000"

PART NO.

PO/REV 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-882451-011

13Jun14

Pg 1/1

Signed by:

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-257639-3		CUSTOMER PART NUMBER: 740/STK		PRODUCT DESCRIPTION: 2.000 X 3.500 SC RECT BAR	
KAISER ORDER NUMBER: 665111	LINE ITEM: 003	SHIP DATE: 04/22/2014	KAISER LOT NUMBER: Z00642016	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 988.000 LB	QUANTITY: 10.000 PCS	B/L NUMBER: 608806	DIAM/DAF/THKNS: 2.000	WIDTH: 3.500	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00642016	0001	1	51.0	47.9	17.9	RE 93	N/A	N/A
Z00642016	0002	1	51.2	48.0	17.2	RE 96	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
103707	.73	.28	.29	.09	.94	.09	.04	.02	.00	.00	.00	.01	.03

DAS
23
9-89

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97 (REF 2012) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee G. Macnowski, Quality & Technology Manager

Aimee G. Macnowski

Plant Serial: 00132718

Kaiser Order Number: 665111

Line Item: 003

Page 1 of 1

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

2.50" x 3.50" X 144.0000"

PART NO.

PO#el 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-882451-013

13Jun14

Pg 1/1

Signed by:

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER: PEC-256311-3		CUSTOMER PART NUMBER: 741/STK		PRODUCT DESCRIPTION: 2.500 X 3.500 SC RECT BAR	
KAISER ORDER NUMBER: 661769	LINE ITEM: 003	SHIP DATE: 03/04/2014	KAISER LOT NUMBER: HK297-022	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 988.000 LB	QUANTITY: 8.000 PCS	B/L NUMBER: 608366	DIAMETER THKNS: 2.500	WIDTH: 3.500	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
HK297-022	0001	1	50.5	46.3	13.0	RE 94	N/A	N/A
HK297-022	0001	2	50.0	46.0	16.0	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
H44731	.74	.44	.26	.08	.93	.11	.08	.03	.01	.00	.00	.01	.04
H44680	.68	.41	.23	.08	.89	.12	.08	.02	.01	.00	.00	.01	.03

DAS
23
9-89

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97 (REAF 2012) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA (SHERMAN, TX) MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00126043

Kaiser Order Number: 661769

Line Item: 003

Page 1 of 1

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

STAINLESS STEEL SHEET 304-2B
"0480 Nom X 48.0000" X 120.0000"
PART NO.

PO/Rel 24565

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

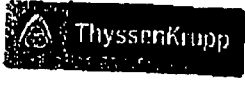

Certificate of Mill Test Results

BL PEC-882451-002

13Jun14

Pg 1/1

Signed by:

 <p>ThyssenKrupp Stainless USA</p>		<p>Type of document / Type de document / Art der Prüfbescheinigung</p> <p>INSPECTION CERTIFICATE CERTIFICADO DE INSPECCION ABNAHMEPRÜFZEUGNIS according to / de acuerdo con / nach EN 10204-3.1</p>		<p>Document number / N° de certificado / Nachweisnummer 0000032986 /</p> <p>Page / Pages / Seiten 1 / 1</p>																	
<p>1 ThyssenKrupp Drive, P.O. Box 13000, Calvert, AL 36513-1300</p> <p>OLBERT METALS SALES LIMITED 889 DERRY ROAD EAST SUITE 305 MISSISSAUGA ON L5T 2J8 CANADA</p>			<p>Customer/Ship to / Cliente / Versender/Empfänger OLBERT METALS SALES LIMITED, MISSISSAUGA</p> <p>Customer's order number / N° de Pedido Cliente / Kundenbestellnummer 1867</p> <p>Manufacturer's work order no. / N° de la orden Manufactura / Werkbestellnummer 901146384 / 011</p> <p>Delivery note no. / N° de Entrega / Lieferschein Nr. 85227205 / 050</p> <p>Product / Products / Erzeugnis SHEET/NO. 304/5LECH</p> <p>Steel grade and quality / Acero / Stahlsorte und Gütegruppe TYPE 304L/304</p>																		
<p>Terms of delivery / Condiciones de entrega / Lieferbedingungen ASTM A240/A240M, ASME SA-240 Sec.II Part A Ed.2010 ASTM A480/A480M, ASME SA-480 Sec.II Part A Ed.2010</p>			<p>Product dimensions (Thickness / Width / Length) / Dimensiones (Espesor / Ancho / Largo) / Maße des Erzeugnisses (Dicke / Breite / Länge) 1.22 mm x 1,219,20 mm x 3,048,00 mm 0.0480 inch x 48.0000 inch x 120.0000 inch</p> <p>Structuring procedure / Procedimiento de manufactura / Herstellung ADD</p> <p>Finish / Acabado / Ausführung 2B</p>																		
<p>Packing list / N° de Empaque / Paquetage 6031834</p>	<p>Sp. of plates / Placas / Bleche 67</p>	<p>Actual weight / Peso actual / Ist-Gewicht 4,343 lb / 1,970 kg</p>	<p>Cell No. / Número de Celda / Zelle 708977</p>	<p>Heat No. / Número de Hornos / Schmelznummer 350222</p>	<p>Sample No. / N° de muestra / Proben-Nr. 1000042983</p>																
<p>Sum / Suma / Summe 67</p>	<p>4,343 lb / 1,970 kg</p>	<p>Heat / Celda / Schmelze 350222</p> <p>Country of heat / País de celda / Erzeugnisland DEU</p>																			
<p>Chemical composition / Composición Química / Chemische Zusammensetzung</p> <table border="1"> <thead> <tr> <th>% C</th> <th>% Si</th> <th>% Mn</th> <th>% P</th> <th>% S</th> <th>% Cr</th> <th>% Ni</th> <th>% N</th> </tr> </thead> <tbody> <tr> <td>0.024</td> <td>0.39</td> <td>1.24</td> <td>0.027</td> <td>0.0010</td> <td>18.08</td> <td>8.01</td> <td>0.086</td> </tr> </tbody> </table>						% C	% Si	% Mn	% P	% S	% Cr	% Ni	% N	0.024	0.39	1.24	0.027	0.0010	18.08	8.01	0.086
% C	% Si	% Mn	% P	% S	% Cr	% Ni	% N														
0.024	0.39	1.24	0.027	0.0010	18.08	8.01	0.086														
<p>Sample Position / Localización de la muestra / Probenlage TRANSVERSE</p>																					
<p>Inspection lot / Lote de inspección / Prüfling</p> <table border="1"> <thead> <tr> <th>Y30.2%</th> <th>TS</th> <th>EL A2"</th> <th>HRB</th> </tr> <tr> <th>PSI / MPa</th> <th>PSI / MPa</th> <th>%</th> <th></th> </tr> </thead> <tbody> <tr> <td>1000042983 43,365 / 290</td> <td>98,301 / 664</td> <td>66.8</td> <td>83</td> </tr> <tr> <td>1000042984 41,624 / 287</td> <td>95,721 / 660</td> <td>68.5</td> <td>83</td> </tr> </tbody> </table>						Y30.2%	TS	EL A2"	HRB	PSI / MPa	PSI / MPa	%		1000042983 43,365 / 290	98,301 / 664	66.8	83	1000042984 41,624 / 287	95,721 / 660	68.5	83
Y30.2%	TS	EL A2"	HRB																		
PSI / MPa	PSI / MPa	%																			
1000042983 43,365 / 290	98,301 / 664	66.8	83																		
1000042984 41,624 / 287	95,721 / 660	68.5	83																		
<p>Remarks / Comentarios / Bemerkungen / Anmerkungen See all identity (apart from analysis) / Control de Identidad (excepto análisis) / Yarnachweisprüfung (Identifizierung) OK OK</p>																					
<p>No weld repairs No intentional additions of Mercury compounds were made or used Free of radioactive contamination EU RoHS Directive 2002/95/EC Compliant Country of Heat as per ISO 3166-1</p>																					
<p>Originator of the document / Origenador del documento / Aussteller der Bescheinigung ThyssenKrupp Stainless USA, LLC An ISO 9001:2008 certified company</p>			<p>The information provided is a true copy of data on file / Los valores reportados corresponden a los datos archivados / Die gemessenen Werte entsprechen den gespeicherten Daten</p> <p> Andrew Faurati Phone: +1 251 826 3492</p>																		
<p>Certificate is generated automatically / Certificado es generado automáticamente / Das Zeugnis wurde automatisch erstellt</p>			<p>Date of issue and release / Fecha de emisión y liberación / Datum Ausstellung / Freigabe 12/28/2012</p>																		

DAS

23

9-89

14-06-18

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

PO/Ref 24565

BL PEC-882451-004

13Jun14

ALUMINUM SHEET 5052-H32
0.0400 Nom X 48.0000" X 120.0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Pg 1/2

1641

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
HUIGUO ZHEN, GONGYI, HENAN, CHINA 451283
TEL: 371-67898611 FAX: 371-67898612

MILL TEST CERTIFICATE

TO:

OLBERT METAL SALES LIMITED
989 DERRY RD. EAST, SUITE 305 MISSISSAUGA,
ONTARIO CANADA L5T 2J8

INVOICE NO.: OMTR100501
CONTRACT NO.: OMMT10051
LOADING PORT: TIANJIN, CHINA
DESTINATION: TORONTO, CANADA
SHIPPING MARKS N/M
DATE: MAY, 25, 2010

DAS

23

9-89

14-06-18

DESCRIPTION OF GOODS:

REFERENCE 1640, 1641. 3003 H14 SHEETS TO ASTM B209, AMS 4008, CIF
TORONTO CANADA

CHEMICAL COMPOSITION											
Heat No.	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	Al
D1005021	5052	0.232	0.270	0.055	0.033	2.283	0.197	<0.001	0.011	0.15	REMAINDER
D1005021	5052	0.232	0.270	0.055	0.033	2.283	0.197	<0.001	0.011	0.15	REMAINDER
D1005020	3003	0.105	0.465	0.0646	1.11	0.0154		0.0086	0.0315	0.15	REMAINDER
D1005019	3003	0.168	0.459	0.0680	1.11	0.0180		0.0101	0.0347	0.15	REMAINDER
D1004079	3003	0.113	0.457	0.0667	1.18	0.0059		0.0098	0.0312	0.15	REMAINDER
D1004079	3003	0.113	0.457	0.0667	1.18	0.0059		0.0098	0.0312	0.15	REMAINDER
B10041168	3003	0.190	0.427	0.0729	1.09	<0.0050		0.0084	0.0357	0.15	REMAINDER
D1004058	5052	0.141	0.318	0.029	0.050	2.292	0.182	<0.001	0.014	0.15	REMAINDER
D1003083	5052	0.110	0.299	0.014	0.038	2.359	0.199	<0.001	0.010	0.15	REMAINDER
B10051122	5052	0.113	0.303	0.010	0.029	2.337	0.207	<0.001	0.010	0.15	REMAINDER
B10051086	5052	0.107	0.334	0.012	0.025	2.288	0.208	<0.001	0.012	0.15	REMAINDER
B10051078	5052	0.125	0.341	0.022	0.040	2.282	0.221	<0.001	0.010	0.15	REMAINDER
B10051076	5052	0.125	0.341	0.022	0.040	2.282	0.221	<0.001	0.010	0.15	REMAINDER
B10051064	5052	0.105	0.308	0.019	0.039	2.406	0.204	<0.001	0.014	0.15	REMAINDER
B10051064	5052	0.105	0.308	0.019	0.039	2.406	0.204	<0.001	0.014	0.15	REMAINDER
B10051041	5052	0.141	0.318	0.029	0.050	2.292	0.182	<0.001	0.014	0.15	REMAINDER
B10051041	5052	0.141	0.318	0.029	0.050	2.292	0.182	<0.001	0.014	0.15	REMAINDER
B10051033	5052	0.113	0.303	0.010	0.029	2.337	0.207	<0.001	0.010	0.15	REMAINDER
B10051033	5052	0.113	0.303	0.010	0.029	2.337	0.207	<0.001	0.010	0.15	REMAINDER
B10051028	5052	0.113	0.303	0.010	0.029	2.337	0.207	<0.001	0.010	0.15	REMAINDER
B10041311	5052	0.232	0.270	0.055	0.033	2.283	0.197	<0.001	0.011	0.15	REMAINDER
B10041305	5052	0.135	0.347	0.025	0.031	2.434	0.202	<0.001	0.011	0.15	REMAINDER
B10041305	5052	0.135	0.347	0.025	0.031	2.434	0.202	<0.001	0.011	0.15	REMAINDER
B10041304	5052	0.125	0.341	0.022	0.040	2.282	0.221	<0.001	0.010	0.15	REMAINDER

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

PO/Rel 24565

BL PEC-882451-004

13 Jun 14

ALUMINUM SHEET 5052-H32
B400 Nom X 48.0000" X 120.0000"
PART NO.

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by:

Pg 2/2

DAS
23
9-89

140618

B10041304	5052	0.125	0.341	0.022	0.040	2.282	0.221	<0.001	0.010	0.15	REMAINDER
B10041277	5052	0.116	0.323	0.008	0.042	2.297	0.211	<0.001	0.013	0.15	REMAINDER
B10041277	5052	0.116	0.323	0.008	0.042	2.297	0.211	<0.001	0.013	0.15	REMAINDER
B10041276	5052	0.111	0.370	0.007	0.051	2.356	0.183	<0.001	0.013	0.15	REMAINDER
B10041276	5052	0.111	0.370	0.007	0.051	2.356	0.183	<0.001	0.013	0.15	REMAINDER
B10041101	5052	0.105	0.308	0.019	0.039	2.406	0.204	<0.001	0.014	0.15	REMAINDER

MECHANICAL PROPERTY

Heat No.	Alloy	Temper	Specs(in)	Tensile strength (Mpa/ ksi)		Elong %
D1005021	5052	H32	.188x48x96	229	33	14
D1005021	5052	H32	.188x48x120	228	33	14
D1005020	3003	H14	.188x60x120	167	24	18
D1005019	3003	H14	.187x48x120	162	23	17
D1004079	3003	H14	.188x48x96	163	24	17
D1004079	3003	H14	.188x48x120	163	24	17
B10041168	3003	H14	.032x48x96	166	24	16
D1004058	5052	H32	.188x60x96	226	33	13
D1003083	5052	H32	.188x48x120	228	33	12
B10051122	5052	H32	.08x48x120	228	33	14
B10051086	5052	H32	.125x60x96	227	33	14
B10051076	5052	H32	.125x48x120	230	33	13
B10051076	5052	H32	.125x48x96	230	33	13
B10051064	5052	H32	.10x48x96	228	33	12
B10051064	5052	H32	.10x48x120	226	33	12
B10051041	5052	H32	.125x60x96	225	33	14
B10051041	5052	H32	.125x60x120	225	33	14
B10051033	5052	H32	.125x60x96	228	33	14
B10051033	5052	H32	.125x60x120	228	33	14
B10051028	5052	H32	.08x48x96	228	33	13
B10041311	5052	H32	.04x48x96	229	33	13
B10041305	5052	H32	.032x48x96	227	33	14
B10041305	5052	H32	.032x48x120	227	33	14
B10041304	5052	H32	.064x48x96	228	33	12
B10041304	5052	H32	.064x48x120	228	33	12
B10041277	5052	H32	.125x48x96	226	33	13
B10041277	5052	H32	.125x48x120	226	33	13
B10041276	5052	H32	.125x48x96	226	33	14
B10041276	5052	H32	.125x48x120	226	33	14
B10041101	5052	H32	.04x48x120	226	33	14

PRODUCER: HENAN MINGTAI AL. INDUSTRIAL CO., LTD

HENAN MINGTAI AL. INDUSTRIAL CO., LTD
河南明泰铝业股份有限公司

140618

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511
.375" x 1.250" X 240.0000"
PART NO.

PO# 124565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-882451-008

13 Jun 14

Pg 1/1

Signed by: _____



Can Do.

Service Center Metals

5850 Quality Way
Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 651 lbs 59 pcs

MANIFEST NUMBER

211064

CUSTOMER PO

PEC-254333

CUSTOMER PART NUMBER

RB0082 X 240

DIE NUMBER

RB0082

ALLOY/TEMPER

6061-T6511

DESCRIPTION

SCRB .375x1.250

DATE OF SHIPMENT

12/17/2013

SALESPERSON

David Schroeder

OUR ORDER NUMBER

192544

ITEM

1

CERTIFICATION

ASTM-B221-13 StencilCont

SPECIFICATION

AMS-QQA-200/8 - 1997

DAS

23
9-89

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests	Lot No.	Test Date	Ultimate Tensile Strength (KSI)		Yield Strength (KSI)		Percent Elongation	
			min	max	min	max	min	max
2	201325113	12/11/13	46.00	46.90	43.10	44.40	11.20	12.05

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others Each	Total	Melt Source:
2BV712	6061	0.64	0.12	0.20	0.02	0.86	0.06	0.01	0.01	98.08	0.05	0.15	Canada

Print Date: 12/17/2013

Calvin J. Wiggins, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.00" x 6.00" X 144.0000"
PART NO.

PO/R# 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-882451-010

Signed by: _____

13 Jun 14
Pg 1/1



Can Do.

Service Center Metals

5850 Quality Way

Prince George, VA 23875

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO

ThyssenKrupp Materials NA

SHIP TO

ThyssenKrupp Materials NA, Toronto

Quantity Certified 1,947 lbs 23 pcs

MANIFEST NUMBER

226233

CUSTOMER PO

PEC-258507

CUSTOMER PART NUMBER

PL0130

DIE NUMBER

PL0130

ALLOY / TEMPER

6061-T6511

DESCRIPTION

PL 1.000x6.000

DATE OF SHIPMENT

5/29/2014

SALESPERSON

David Schroeder

OUR ORDER NUMBER

205632

ITEM

8

CERTIFICATION

ASTM-B221-13 StencilCont

SPECIFICATION

AMS-QQA-200/8 - 1997

DAS

23

9-89

4/26/18

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Mechanical Properties

Tests Lot No.

Test Date

Ultimate Tensile Strength (KSI)

Yield Strength (KSI)

Percent Elongation

1 201104151
1 201410816

3/21/11
5/28/14

min	max	min	max	min	max
49.10	49.10	44.90	44.90	13.70	13.70
51.60	51.60	48.60	48.60	14.10	14.10

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	AL	Others		Melt Source:
											Each	Total	
0311050	6061	0.73	0.34	0.32	0.11	0.84	0.10	0.07	0.02	97.47	0.03	0.10	United States of America
05191401	6061	0.78	0.35	0.33	0.12	0.85	0.09	0.09	0.02	97.38	0.03	0.10	United States of America

Print Date: 5/29/2014

Calvin J. Winnings, Director of Quality & Technical Services

Rev. 9/23/11 - UMS

THYSSENKRUPP MATERIALS NA

Certificate of Mill Test Results

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.50" x 2.50" X 144.0000"

PART NO.

PO/Ref: 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

BL PEC-882451-012

Signed by:

13Jan14

Pg 1/1

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-257420-3		CUSTOMER PART NUMBER: 470/STK		PRODUCT DESCRIPTION: 1.500 X 2.500 SC RECT BAR	
KAISER ORDER NUMBER: 664520	LINE ITEM: 003	SHIP DATE: 04/14/2014	KAISER LOT NUMBER: Z00635023	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1058.000 LB	QUANTITY: 20.000 PCS	B/L NUMBER: 608742	DIAM/DR/THKNS: 1.500 X 2.500	WIDTH: 1.500	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00635023	0001	1	54.3	52.4	11.8	RE 94	N/A	N/A
Z00635023	0001	2	51.8	49.2	16.1	RE 94	N/A	N/A
Z00635023	0002	1	54.6	52.4	15.2	RE 93	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.30	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
103718	.75	.31	.28	.09	.93	.10	.06	.02	.00	.00	.00	.01	.03

DAS
23
9-89

Applicable Requirements:

ASTM-B221-13 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 97(REF 2012) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00131629

Kaiser Order Number: 664520

Line Item: 003

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM ROUND BAR 6061-T6511
.625" DIA X 144.0000"
PART NO.

PO/Rel 24565

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-882451-006

13Jun14

Pg 1/1

Signed by: _____



TEL: (416)745-4444 FAX: (416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

MILL TEST ASTM B221

BILL TO THYSSENKRUPP MATERIALS, NA	1773	CERT CODE: 1	0.12	DIE NUMBER S 3651	DATE OF SHIPMENT Apr/21/2014	EXTRUDEX ORDER NO. 168036 - 9	MANIFEST NO. 306184
SHIP TO THYSSENKRUPP MATERIALS, NA	1773	CUSTOMER PO PEC-257428		ALLOY 6061	TEMPER T6511	SALESMAN FORBES DODWELL	
S&D DESCRIPTION .625"		CUSTOMER PART NUMBER 3651-S		PART DESCRIPTION .625"		CERTIFICATION MILL TEST ASTM B221-13	
						MADE IN CANADA	
						DAS 23	9-89

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Apr/16/2014	44.70	40.90	23.40	90.4, 89.6, 90.1	

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 14030221A 6061	0.56	0.16	0.2	0.02	0.8	0.07	0	0	0.01	0	0	0	0	0	0	0	0	0	0	Remainder

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

David Natale
Quality Control Manager

1 - CUSTOMER COPY

MILL TEST ASTM B221

2728300

6920921

242456

212836

2422536

2425447